

MATERIAL SAFETY DATA SHEET

Section I:

Manufactures Name: Walling Chemical Company

Address: 2008 Westport Ave., Box 408, Sioux Falls, SD 57117-0408

Phone #: 605-336-6710

Date Prepared: 9-22-88

Product Identity: Code 803A

Synonyms: Titrating Solution

Section II: Hazardous Ingredients/Identity Information

Hazardous Components	OSHA PEL	ACGIH-TLV	Flammability	LEL	UEL
Thorium Nitrate	Not listed	Not listed	NA (0)	NA	NA

Other Cited Data: LD₅₀ i.p. in rats = 68mg/Kg

Comments: None

Section III: Physical/Chemical Characteristics

Boiling Point: Approx. 100°C Specific Gravity (H₂O=1): 1.0
 Vapor Pressure: Water Melting Point: 32°F
 pH: 6 - 7 Evaporation Rate (Butyl acetate=1): <1
 Appearance and odor: Clear odorless liquid

Section IV: Fire and Explosion Data

Flash Point: None
 Extinguishing Media: Water, CO₂, foam, dry chemical
 Special Fire Fighting Procedures: None
 Unusual Fire and Explosion Hazards: None

Section V: Reactivity Data

Stability: Stable Yes Unstable No
 Conditions to avoid: Skin or eye contact
 Incombatability: None

Hazardous Decomposition or By Products None

Hazardous Polymerization: Will Occur - , Will Not Occur +

Section VI: Health Hazard Data

Routes of Entry: Inhalation No Skin Yes Ingestion Yes

Health Hazards (Acute and Chronic) May cause skin or eye irritation.
Ingestion: May cause liver damage with a high thorium dose.

Carcinogenicity: NTP No IARC No

OSHA Regulated No Other No

Signs and Symptoms of Exposure: Eyes: Irritation Skin: Rash or other
allergic reaction possible, Ingestion: Nausea.

Medical Conditions Aggravated by Exposure: None Known

Emergency and First Aid Procedures: Eyes & Skin: Flush well with water.
Ingestion: Call a physician. Induce vomiting.

Section VII: Precautions for Safe Handling and Use.

Steps to be taken in case material is released or spilled: Absorb on inert material and
transfer to a suitable container, Dispose of properly (burial or
incineration).

Waste Disposal Method Follow federal, state and local regulations.

Precautions to be taken in handling and storing: Avoid contact

Other precautions: Avoid contamination of this reagent.

Section VIII: Control Measures

Respiratory Protection: NA

Ventilation: Local Exhaust NA Special NA
Mechanical (Type) NA Other NA

Protective Gloves Latex Eye Protection Goggles

Other Eye Wash

Comments: Use safe practices when using this product.

References Used:

Third Annual Report on Carcinogens
NTIS
Research Triangle Park, NC

Fire Hazard Properties of Flammable Liquids, Gases, and Volatile Solids (1984)
NFPA
Batterymarch Park, Quincy, MA 02269

OSHA Safety and Health Standards
(29 CFR 1910) OSHA 2206
U.S. Dept. of Labor
Washington, D.C. 20402

Threshold Limit Values and Biological Exposure Indices For 1985-86
ACGIH, Cincinnati, OH 45211

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